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(54) POLYMERIZABLE COMPOUND AND ITS POLYMER

(57)Abstract:

PROBLEM TO BE SOLVED: To provide a polymerizable compound and its polymer which is unknown and satisfies requirements for the polymer used in antireflection films, such as a high light transmittance, an adequate glass transition temperature (Tg), a high melting point, an adequate density, a small surface tension, small water absorption, low gas permeability, sufficient hardness and remarkably high chemical resistance or the like.

SOLUTION: The polymerizable compound is expressed by formula (1) and the polymer of the same satisfies the requirements. In the formula R¹ is H, a 1-20C alkyl group or a 6-10C aromatic group, m is an integer of 1-20, n is an integer of 0-10, p is an integer of 1-41 and q is 0 or 1. An arbitrary -CH₂- in the alkyl group is optionally substituted to -O-, -COO-, -OCO- or -CH₂CH₂-, etc., and arbitrary hydrogen atoms are optionally replaced by a halogen atom.

